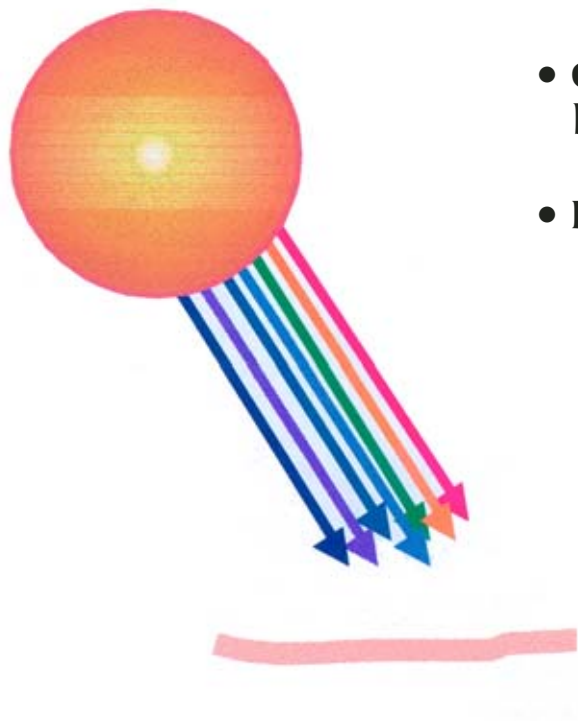


# Effects of Sunlight on Human Skin



- Generation of free radicals ( $^1\text{O}_2$ , etc.) by UV-visible light components
- Direct photon damage to DNA by UV-B light

**Result:**

Sunburn (local/systemic inflammation)  
Premature skin aging  
Skin cancer  
Autoimmune diseases

## Sunlight - Induced Singlet Oxygen / Reactive Oxygen Species

